WORLD INTELLECTUAL PROPERTY ORGANIZATION International Bureau



	INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)					
(51)	International Patent Classification 7:			1) International Publication Number:	WO 00/28025	
	C12N 15/12, 15/62, C07K 14/435, G01N 33/542, 33/533, 33/84	A1	(4	3) International Publication Date:	18 May 2000 (18.05.00)	
	International Application Number: PCT/GB99/03654 International Filing Date: 5 November 1999 (05.11.99)		CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC,			
(30)	Priority Data: 9824357.9 7 November 1998 (07.11.98) (B	Published With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of		
(71)	licant (for all designated States except US): UNIVERSITY DF WALES COLLEGE OF MEDICINE [GB/GB]; Heath 'ark, Cardiff CF4 4XW (GB).			amendments.		
(72) Inventor; and (75) Inventor/Applicant (for US only): CAMPBELL, Anthony, Keith [GB/GB]; 14 Maillard's Haven, Penarth, Vale of Glamorgan CF65 5RF (GB).			``			
	Agents: NEWELL, William, Joseph et al.; Wynne-Jor and James, Morgan Arcade Chambers, 33 St. Mai Cardiff CF10 1AF (GB).				i	
(54) Title: PHOLASIN						

(57) Abstract

A bioluminescent oxidative indicator responds to oxygen or one of its metabolites producing light or radiation of altered characteristics when there is a change in the amount of oxygen or its metabolites present. The indicator may also be modified so that its light emission or radiation characteristics change when it is modified covalently, is linked to another protein, interacts with or binds a substance, or when coupled to a specific promoter or enhancer gene thereby acting as a reporter gene.